

## ABSTRACT OF THE DISCLOSURE

An optical head device includes: an optical element collecting light reflected from a reproduction information layer (a target information layer in an optical information recording medium) and light reflected from

- 5 information layers adjacent to the reproduction information layer at different positions; a light receiving element obtaining a detection signal from the reflected light collected by this optical element; and arithmetic circuitry obtaining a reproduction signal from this detection signal. The light receiving element includes: a first light receiving portion detecting a
- 10 first detection signal from light containing the light reflected from the reproduction information layer; a second light receiving portion detecting a second detection signal from light reflected from a first adjacent information layer located more distant from the condensing lens than the reproduction information layer; and a third light receiving portion detecting a third detection signal from light reflected from a second adjacent information layer located closer to the condensing lens than the reproduction information layer. The arithmetic circuitry uses constants K and L determined depending on spaces between the reproduction information layer and the adjacent information layers, so as to subtract the K-times
- 15 second detection signal and the L-times third detection signal from the first detection signal.
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